

# PATENT APPLICATION TRANSMITTAL LETTER

(Large Entity)

Docket No.

BS00-055

TO THE ASSISTANT COMMISSIONER FOR PATENTS

Transmitted herewith for filing under 35 U.S.C. 111 and 37 C.F.R. 1.53 is the patent application of:

Mark KIRKPATRICK

For: SYSTEM AND METHOD FOR EMAIL NOTIFICATION

Enclosed are:


- ☐ Certificate of Mailing with Express Mail Mailing Label No.
- ☒ Five (5) sheets of drawings.
- ☐ A certified copy of a application.
- ☒ Declaration ☐ Signed. ☒ Unsigned.
- ☐ Power of Attorney
- ☐ Information Disclosure Statement
- ☐ Preliminary Amendment
- ☐ Other:

## CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	33	- 20 =	13	x \$18.00	\$234.00
Indep. Claims	5	- 3 =	2	x \$78.00	\$156.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$690.00
TOTAL FILING FEE					\$1,080.00

- ☐ A check in the amount of to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 50-1390 as described below. A duplicate copy of this sheet is enclosed.
  - ☒ Charge the amount of \$1,080.00 as filing fee.
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Dated: June 28, 2000

  
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**APPLICATION FOR UNITED STATES LETTERS PATENT**

**by**

**MARK KIRKPATRICK**

**for**

**SYSTEM AND METHOD FOR EMAIL NOTIFICATION**

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Attorney Docket No: BS00-055  
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# SYSTEM AND METHOD FOR EMAIL NOTIFICATION

## BACKGROUND

### Field of Invention

5           The present invention relates generally to the field of telecommunications. More specifically, the present invention relates to email notification systems.

### Background of the Invention

10           Today, people communicate with one another in numerous ways. Telephones, I-pagers, cell phones and email are just a few examples of these communication technologies. Often however, the person to whom a communication is attempted is not available to answer a call, page or email immediately. Consequently, those initiating the communication desire to leave a message. For whatever reason, most people tend to check their voicemail more often than other message technologies, for example, email. Although conventional voicemail systems can be tied into pagers to alert subscribers that they have a pending voicemail, this is not the case for email users. Email users are not notified of the incoming email if they are not sitting at their computer. Indeed, people leaving an email will often call the email recipient to notify them that an email has been sent and to look for it. This is undesirable considering the large number of emails being sent today.

20           Some conventional email systems allow the email messages to be automatically forwarded to a pager. However, not all email systems offer this capability, and not all pagers are able to take advantage of it. Consequently, not all pager users can have their email messages sent to their pagers.

## SUMMARY OF THE INVENTION

The present invention is an automatic subscription service that uses a client to poll a subscriber's email account. When the subscriber receives a new email, the present invention obtains the email from the subscriber's email account, extracts the headers from the email messages and convert the header from text to speech using any of a variety of well-known text to voice conversions. The converted headers are stored in a voicemail account corresponding to the person's email account. The person's voicemail account can be set up to notify the person of the new voicemail corresponding to the new email. In this manner, the person is notified of the delivery of an email without having to be at a computer and without significant changes to the existing notification infrastructure. Moreover, this removes the requirement of following an email with a call notifying the intended recipient of the email.

In alternative embodiments of the present invention, the person is notified by a page of new voicemail messages. If the pager has a text capability, the text of the email header is presented to the subscriber.

In a preferred embodiment of the present invention, the notifications can be from more than one email account. Thus, the subscriber may have, for example, an office email account and a home email account. The notification system of the present invention can poll each account for the presence of new email, and notify the subscriber accordingly. In the preferred embodiment, a code or other indicator is used to differentiate the source of the email or its priority.

Preferably, no changes are made to existing email servers. The system of the present invention preferably accesses the email information for each of its subscribers in a conventional fashion to determine if there are any new email messages for a particular subscriber.

5 Thus, one object of the present invention is to provide notification of the receipt of an email message to the email message's recipient or recipients.

Another object of the present invention is to provide notification of the receipt of an email message without requiring the recipient to be at a computer.

Yet another object of the present invention is to provide notification of an email message without significantly modifying existing notification structures.

Yet another object of the present invention is to provide notification of email messages using pagers.

Yet another object of the present invention is to provide notification of receipt of email messages though voicemail.

15 Yet another object of the present invention is to provide notification of the receipt of an email message from any number of email accounts a subscriber may desire.

Yet another object of the present invention is to provide notification of the receipt of an email message without significant change to conventional email notification systems.

These and other objects of the present invention are described in greater detail in the detailed description of the invention, the appended drawings and the attached claims.

## **BRIEF DESCRIPTION OF THE DRAWINGS**

5        Figure 1 is a schematic illustration of a system for providing notification of email messages according to a preferred embodiment of the present invention.

Figure 2 illustrates a preferred structure for an account record of required subscriber contact information according to a preferred embodiment of the present invention.

10       Figure 3A is a flow chart for a process for email notification according to a first preferred embodiment of the present invention.

Figure 3B is a flow chart for a process for email notification according to a second preferred embodiment of the present invention.

15       Figure 3C is a flow chart for a process for email notification according to a third preferred embodiment of the present invention.

## **DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS**

A preferred embodiment of a system 100 for notifying a subscriber of the receipt of an email message is illustrated schematically in Figure 1. An email voice notification system (EMVN) 102 obtains the data required for the email notification  
20       according to the preferred embodiment of the present invention. In a preferred embodiment of the present invention, EMVN 102 also carries out the email notification. For each subscriber, EMVN 102 logs into an email server 104 that

holds the subscriber's email account. An exemplary email server 104 is an SMTP email server. SMTP email servers are well known to those skilled in the art. Preferably, EMVN 102 interacts with an email server in a conventional manner. For example, where email server 104 is an SMTP server, EMVN 102 preferably communicates with email server 102 as a conventional SMTP client, for example, OUTLOOK or any other standard SMTP client. EMVN 102 would then obtain any new email messages. EMVN 102 executes a text-to-voice converter to convert the header information in the email to voice. If desired, only a portion of the header information need be converted to speech. Such text-to-voice converters are well known, for example, Lucent TTS, available from Lucent Technologies in Murray Hill, New Jersey.

After converting the email header information from text to voice, EMVN 102 preferably calls up voice mail system 106 to access the voice mailbox of the subscriber. Preferably, EMVN 102 has access to a database 107 containing an account record (described below) for the subscriber, including for example, subscriber voice mail information. Accessing the subscriber's voicemail can require authorization such as providing a PIN code. In the preferred embodiment of the present invention, the PIN code is obtained by accessing the subscriber information in the subscriber's account record stored in database 107.

When EMVN 102 successfully accesses the subscriber's voicemail system 106, it leaves a voice mail message containing the email header information that was converted from text to speech. In a preferred embodiment of the present invention,

the information left in the voice mail notification message extracted from the header information includes: the time the message was sent, the identity of the sender and the subject of the message if there is one. In addition, the priority of the message can be given, for example high, normal or low. In addition, the subscriber  
5 can be notified if there are any attachments to the email.

Preferably voicemail system 106 is configured to send a message to the subscriber's pager, digital phone, or some other device for notifying the subscriber. Preferably, the voicemail notification is independent of the EMVN 102. That is, EMVN 102 generates a new voicemail message containing information regarding  
10 any new email. The subscriber's existing voicemail notification system notifies the subscriber of the voicemail message in a conventional fashion. For example, if voicemail system 106 is connected to a pager, it sends a page to the subscriber to notify the subscriber of the new message. In an alternative preferred embodiment of the present invention, voicemail system 106 is integrated with EMVN 102.

15 In an alternative embodiment of the present invention, EMVN 102 performs the notification to the subscriber itself. In the alternative preferred embodiment, EMVN 102 sends a message to a pager identified in the subscriber's account record (described below), for example, I-pager 108 or pager 110. In either case, if the pager is text capable, the email header information, or a portion thereof, is displayed as  
20 text on the pager display. In this case, the email header does not have to be first converted to speech. If the pager is not text capable, a code, for example, the number 777, can be displayed on the pager to indicate that new email has been



received. The information to contact pager 108 or page 110 is stored in an account record (described below) for the subscriber.

EMVN 102 can be set up to poll email server 102 according to any desired criteria. For example, polling can be periodic, for example once per hour.

5 Alternatively, polling can be random, for example 6 times a day, but not at set times. It would be apparent to those skilled in the art that other polling paradigms can be used that fall within the scope and spirit of the present invention. In addition, the same polling can be applied for each subscriber, or different polling can be performed for different subscribers. For example, higher paying subscribers  
10 might be assigned a higher polling frequency. In the latter instance, polling frequency is a field stored in the subscriber's account record stored in database 107. In a preferred embodiment, the notification is sent to more than one notification device at the same time. For example, EMVN 102 can post a voicemail message containing the header information, and at the same time send a notification  
15 message to a pager associated with the subscriber.

An exemplary subscriber account record stored in database 107 is illustrated in Table I. Preferably, the account record contains the following fields:

FIELD	DESCRIPTION
SUSCRIBER NAME	Name of the subscriber.
POLL TIME	Frequency with which the subscriber's email account is polled.
LAST POLLED	Time the subscriber's email account was last polled. This value can be used in conjunction with the POLL TIME field and the current time to determine if the subscriber's email account should be polled again.
EMAIL SRV	Address of the subscriber's email account.
EMAIL ACCT	Subscriber's email account name.
EMAIL PW	Subscriber's email authorization information, for example password or PIN.
EMAIL TYPE	Type of email account, for example, SMTP or X.400. EMVN 102 consults the EMAIL TYPE field to determine the appropriate protocol to use when communicating with email server 104.
VOICEMAIL SRV	address of the subscriber's voicemail server. If the subscriber uses just an answering machine, this field contains the telephone number of the answering machine.
VOICEMAIL ACCT	Account number of the subscriber's voicemail account, for example extension number.
VOICEMAIL PW	Any required password information that is required to leave a message on the subscriber's voicemail.
PAGER SRV	Address of the server that sends a message to the subscriber's pager, or the telephone number of the subscriber's pager. Alternatively, the PAGER SRV field

	contains the phone number of the subscriber's pager.
PAGER ACCT	Account number or identification code of the pager, if required, to send a message to the subscriber's pager.
PAGE PW	Any password required to send a message to the subscriber's pager.

Table I: Fields in subscriber account record

If the subscriber desires that multiple email accounts be monitored, then the POLL TIME, LAST POLLED, EMAIL SRV, EMAIL ACCT, EMAL PW and EMAIL TYPE fields are all repeated as necessary to represent each of the subscriber's email accounts to be polled. The POLL TIME and LAST POLLED fields can be different for each of the subscriber's email accounts. Thus, subscribers can choose to have their different email accounts polled according to different criteria. For example, subscribers might want to poll their office email accounts more often than their personal email accounts.

EMVN 102 is preferably a UNIX system, though any system capable of performing the email server client and notification functions described herein can be used. The present invention is protocol-independent. That is, the email server 104 can be any email server. EMVN 102 would have to be programmed to perform the functions described herein for the kind of email server being used, as defined in the EMAIL TYPE field. Programming EMVN 102 to communicate with an email server to provide the functions described herein would be apparent to those skilled in this art.

In a preferred embodiment of the present invention, EMVN 102 is offered as a subscription service. That is, subscribers pay an additional fee periodically (preferably a month) for the email notification service.

Figures 3A – 3C are flow charts of exemplary processes 300, 330 and 350 respectively according to alternative preferred embodiments of the present invention. Processes 300, 330 and 350 preferably execute on EVMN 102. Referring to Figure 3A a process 300 according to a first preferred embodiment of the present invention is described. Process 300 preferably executes on EMVN 102. In step 301, process 300 determines whether a predetermined time has elapsed for polling email server 104 for new emails. If the predetermined time has not elapsed, then process 300 stays in step 301. If the predetermined time has elapsed, then process 300 gets the next subscriber record to be polled in step 302. If this is the first iteration, then process 300 gets the first subscriber record to be polled in step 302. In step 306, process 300 determines whether a second predetermined time has elapsed for the current subscriber record to be polled. This second predetermined time is used for subscribers that may have multiple email accounts to be polled (for example, work and personal email accounts). As described above, the subscriber may have different email accounts with different polling requirements for each account. If the second predetermined time has elapsed in step 306, process 300 continues in step 308 where process 300 determines if there is any new email in the subscriber's email account. If there is new email, process 300 retrieves all new email in step 310. Process 300 extracts header information from each of the new email messages

in step 312. Process 300 converts the text header information to speech in step 314. Process 300 sends the speech information to a voice mailbox associated with the subscriber in step 316. The subscriber is notified of the new voicemail, for example, in one of the ways described above.

5           If in step 308 there is no more email, process 300 continues in step 318. Process 300 continues in step 318 if the second predetermined time has not elapsed as determined in step 306. In step 318, process 300 determines if the subscriber has more email accounts. If the subscriber has more email accounts, then process 300 obtains the next email account in step 320 and continues processing in step 306 as described above. If the subscriber has no more email accounts, process 300 continues in step 322 where it determines if there are more subscribers for whom email account polling is required. If there are more subscribers, process 300 gets the next subscriber record in step 302 and processing continues as described above for the new subscriber record. If there are no more subscribers, process 300 continues in step 301 where it waits for the first predetermined time to elapse before repeating the entire process. It should be noted that the first predetermined time can be arbitrary. In an alternative preferred embodiment, process 300 is started by an operator initiating the process by, for example, clicking on a START button on a computer display.

20           Referring to Figure 3B, a process 330 according to a second preferred embodiment of the present invention is described. Process 330 preferably executes on EMVN 102. In step 332, process 330 determines whether a predetermined time

has elapsed for polling email server 104 for new emails. If the predetermined time has not elapsed, then process 330 stays in step 331. If the predetermined time has elapsed, then process 330 gets the next subscriber record to be polled in step 334. If this is the first iteration, then process 330 gets the first subscriber record to be  
5 polled in step 334.

Process 330 gets the next (or first) email account in step 336 in the subscriber record. As described above, subscribers can have multiple accounts. In step 338, process 330 determines if there is any new email in the subscriber's email account. If there is new email, process 330 retrieves all new email in step 340. Process 330  
10 extracts header information from each of the new email messages in step 342. Process 330 converts the text header information to speech in step 344. Process 330 sends the speech information to a voice mailbox associated with the subscriber in step 346. The subscriber is notified of the new voicemail, for example, in one of the ways described above.

15 If in step 338 there is no more email, process 330 continues in step 348. In step 348, process 330 determines if the subscriber has more email accounts. If the subscriber has more email accounts, then process 330 obtains the next email account in step 336 and continues processing in step 338 as described above. If the subscriber has no more email accounts, process 330 continues in step 349 where it  
20 determines if there are more subscribers for whom email account polling is required. If there are more subscribers, process 330 gets the next subscriber record in step 334 and processing continues as described above for the new subscriber

record. If there are no more subscribers, process 330 continues in step 332 where it wait for the first predetermined time to elapse before repeating the entire process. If should be noted that the first predetermined time can be arbitrary. In an alternative preferred embodiment, process 330 is started by an operator initiating  
5 the process by, for example, clicking on a START button on a computer display.

Referring to Figure 3C, a process 350 according to a third preferred embodiment of the present invention is described. Process 350 preferably executes on EMVN 102. In step 366, process 350 determines whether a predetermined time has elapsed for polling email server 104 for new emails. If the predetermined time has not elapsed, then process 350 stays in step 366. If the predetermined time has  
10 elapsed, then process 350 gets the next subscriber record to be polled in step 351. If this is the first iteration, then process 350 gets the next (or first) subscriber record to be polled in step 351.

Process 350 determines whether the time has elapsed for this subscriber's  
15 account to be polled in step 352. If that time has elapsed, process 350 determines if there is any new email in the subscriber's email account in step 354. If there is new email, process 350 retrieves all new email in step 356. Process 350 extracts header information from each of the new email messages in step 358. Process 350 converts the text header information to speech in step 360. Process 350 sends the speech  
20 information to a voice mailbox associated with the subscriber in step 362. The subscriber is notified of the new voicemail, for example, in one of the ways described above.

If in step 354 there is no more email, process 350 continues in step 364 where it determines if there are more subscribers for whom email account polling is required. If there are more subscribers, process 350 gets the next subscriber record in step 351 and processing continues as described above for the new subscriber  
5 record. If there are no more subscribers, process 350 continues in step 366 where it wait for the first predetermined time to elapse before repeating the entire process. It should be noted that the first predetermined time can be arbitrary. In an alternative preferred embodiment, process 350 is started by an operator initiating the process by, for example, clicking on a START button on a computer display.

10 The foregoing disclosure of embodiments of the present invention has been presented for purposes of illustration and description. It is not intended to be exhaustive or to limit the invention to the precise forms disclosed. Many variations and modifications of the embodiments described herein will be obvious to one of ordinary skill in the art in light of the above disclosure. The scope of the invention  
15 is to be defined only by the claims appended hereto, and by their equivalents.



## WHAT IS CLAIMED IS:

1. A system for providing notification of an incoming email message to a subscriber, comprising:

an email server to which the incoming email message is sent and on which the incoming email is stored;

an email notification server to poll the email server to obtain the incoming email message;

a header extraction process to extract the header of the incoming email;

a text-to-speech converter to convert at least a portion of the header to speech as converted header information; and

a process to call a voicemail server corresponding to the subscriber and leave a voicemail message containing the converted header information as a voicemail message.

2. The system recited in claim 1, wherein the voicemail server includes a process for notifying the subscriber of the voicemail message containing the converted header information.

3. The system recited in claim 1, wherein the email notification server waits a predetermined amount of time prior to polling the email server to obtain the incoming email message.

4. The system recited in claim 1, wherein the subscriber has more than one email account and wherein the email notification server polls each email account of the subscriber for the presence of new email messages.

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5. The system recited in claim 4, wherein each email account has a different predetermined amount of time that the email notification server waits prior to polling the email account.
  6. The system recited in claim 4, wherein each email account has a different predetermined amount of time that the email notification server waits prior to polling the email account and the email notification server skips polling the current email account and polls the next email account of the subscriber if the predetermined time corresponding to the current email account has not yet elapsed.
  7. A method for notifying a subscriber of the presence of new email messages, comprising the steps of:
    - (a) polling an email account associated with the subscriber for the presence of new email messages;
    - (b) obtaining any new email messages;
    - (c) extracting at least a portion of header information of each new email as extracted header information; and
    - (d) notifying the subscriber of the new email using the extracted header information.
  8. The method recited in claim 7, further comprising the step of converting the extracted header information to speech as converted header information.
  9. The system recited in claim 6, further comprising the steps of:
    - contacting a voicemail system associated with the subscriber; and

leaving a voicemail message containing the converted header information for the subscriber.

10. The method recited in claim 9, further comprising the steps:

determining whether the subscriber has additional email accounts; and  
repeating steps (a) - (d) for each email account if the subscriber has multiple email accounts.

11. The method recited in claim 8, further comprising the step of determining whether a predetermined time has elapsed prior to polling the subscriber's email account.

12. The method recited in claim 10, further comprising the step of determining whether a predetermined time has elapsed for each of the subscriber's email accounts where the subscriber has multiple email accounts.

13. A system for providing email notification to a plurality of subscribers comprising:

one or more email servers to which emails destined for any of the plurality of subscribers are sent and stored;

a database system containing an account record corresponding to each of the plurality of subscribers;

a notification server coupled to the database system, the notification server comprising:

a first process to poll the one or more email servers to determine if there are any new email messages for the plurality of subscribers; and

a second process to notify each subscriber of any new email messages in accordance with an account record in the database corresponding to each subscriber.

14. The system recited in claim 13, wherein the notification server further comprises a third process to obtain each new email message from each of the one or more email servers, convert at least a portion of the email header associated with each new email message from text to speech as converted header information and to send the converted header information to a voice mailbox corresponding to the subscriber to whom the email was directed.

15. The system recited in claim 13, wherein prior to polling for a particular subscriber, the first process first determines if a predetermined time has been reached, and polling for the particular subscriber only if the predetermined time has been reached.

16. The system recited in claim 13, wherein one or more of the subscribers has a plurality of email accounts, and the first process polls each of the plurality of email accounts for each of the subscribers.

17. The system recited in claim 15, wherein prior to polling a particular email account for a particular subscriber, the first process first determines if a predetermined time has been reached, and polling the particular email account for the particular subscriber only if the predetermined time has been reached

18. The system recited in claim 13, wherein the account record contains email contact information for the subscriber corresponding to the account record.

19. The system recited in claim 13, wherein the email contact information includes a field describing a type of email system.

20. The system recited in claim 13, wherein the account record contains voicemail contact information for the subscriber corresponding to the account record.

21. The system recited in claim 13, wherein the account record contains pager contact information for the subscriber corresponding to the account record.

22. A server for providing email notification to a plurality of subscribers, comprising:

means for connecting a database to obtain an account record for a particular subscriber;

means for obtaining email account contact information for the particular subscriber from the account record for the particular subscriber;

means for polling the email account according to the email account contact information for the presence of new email; and

means for causing the particular subscriber to be notified of new email in the email account.

23. The server recited in claim 22, wherein the particular subscriber has multiple email accounts, further comprising:

means for polling each of the email accounts for the presence of new email; and

means for causing the particular subscriber to be notified of the presence of email in any of the email accounts

24. The server recited in claim 23, wherein the multiple email accounts are on multiple email servers.

25. The server recited in claim 22, wherein the means for polling the email account comprises means for polling the email account only after a predetermined time has elapsed.

26. The server recited in claim 22, wherein the means for causing the subscriber to be notified, comprises:

means for obtaining at least a portion of the header information from each new email for the particular subscriber;

means for converting the obtained header information to speech as converted information; and

means for sending the converted information to a voicemail system associated with the particular subscriber in accordance with voicemail system contact information contained in the account record for the particular subscriber.

27. The server recited in claim 22, wherein the means for causing the subscriber to be notified comprises means for sending a page to the particular subscriber in accordance with pager contact information contained in the account record.

28. A method for providing email notification to a plurality of subscribers, comprising the steps of:

connecting a database to obtain an account record for a particular subscriber;

obtaining email account contact information for the particular subscriber from the account record for the particular subscriber;

polling the email account according to the email account contact information for the presence of new email; and

causing the particular subscriber to be notified of new email in the email account.

29. The method recited in claim 22, wherein the particular subscriber has multiple email accounts, further comprising the steps of:

polling each of the email accounts for the presence of new email; and

causing the particular subscriber to be notified of the presence of email in any of the email accounts

30. The method recited in claim 23, wherein the multiple email accounts are on multiple email servers.

31. The method recited in claim 22, wherein the step of polling the email account comprises the step of polling the email account only after a predetermined time has elapsed.

32. The method recited in claim 22, wherein the step of causing the subscriber to be notified comprises the steps of:

obtaining at least a portion of the header information from each new email for the particular subscriber;

converting the obtained header information to speech as converted information; and

sending the converted information to a voicemail system associated with the particular subscriber in accordance with voicemail system contact information contained in the account record for the particular subscriber.

33. The method recited in claim 22, wherein the step of causing the subscriber to be notified comprises the step of sending a page to the particular subscriber in accordance with pager contact information contained in the account record.

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## ABSTRACT OF THE DISCLOSURE

Email subscribers are notified of the receipt of new email messages when they are not at their computers via voice or page. An email notification server polls the email server corresponding to the subscriber's email account for the presence of new email messages. New email messages are obtained. Header information is extracted. If new email notification is by voicemail, the extracted header information is converted from text to voice. A voicemail message containing the extracted header information is saved on the voicemail system corresponding to the subscriber for whom the email message was intended. The email notification server can also send a page to notify the subscriber of the presence of new email.

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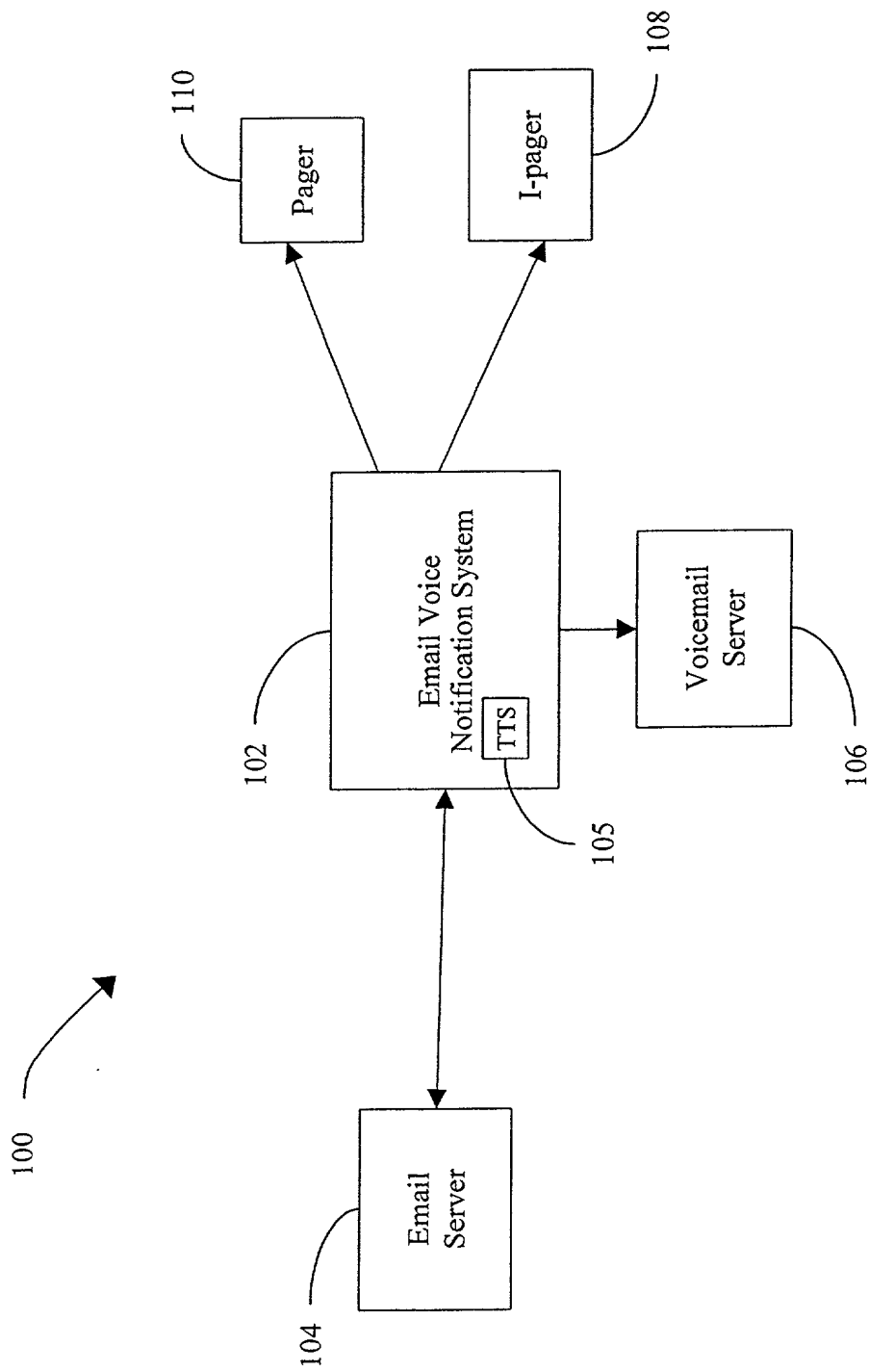


Figure 1



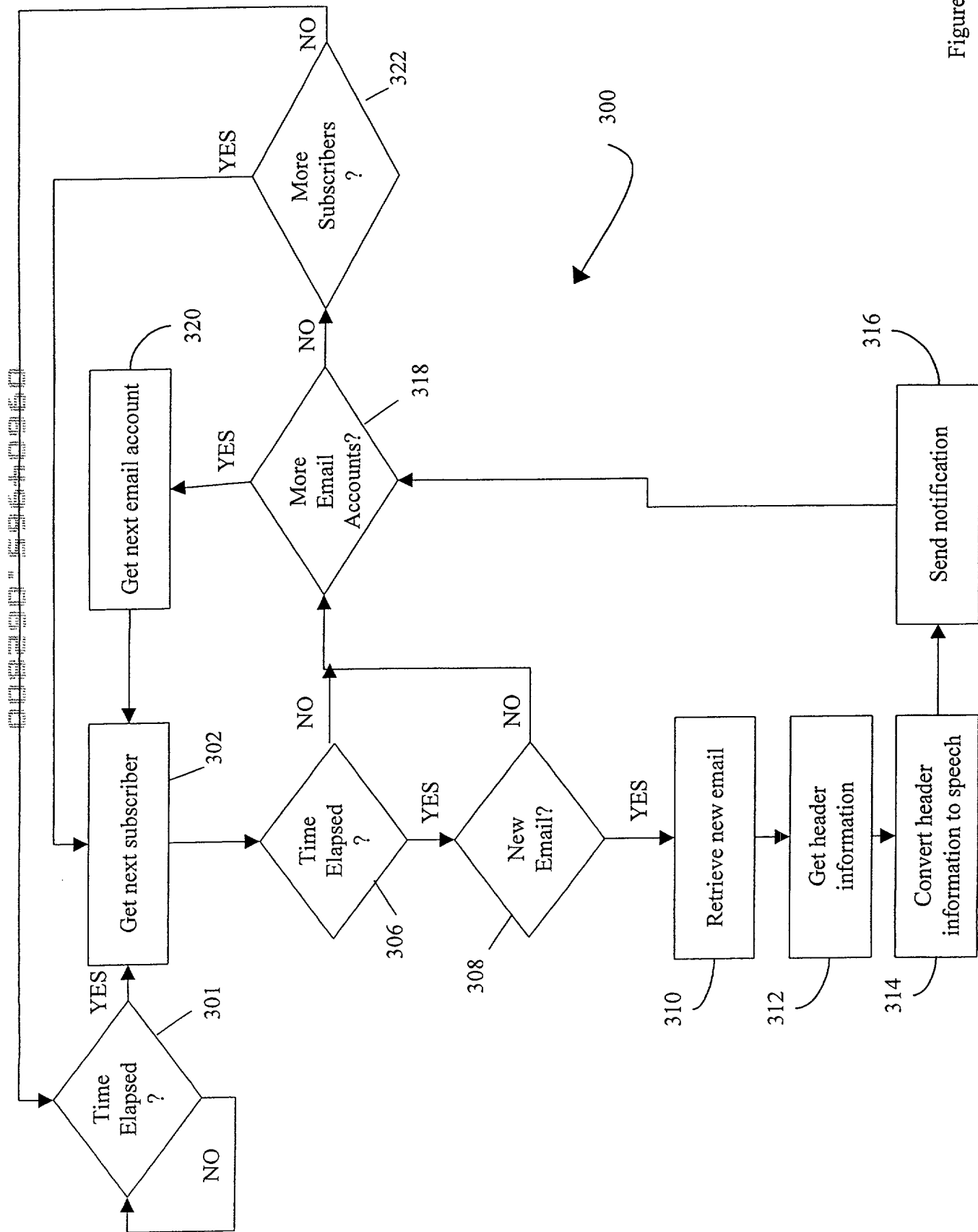


Figure 3A

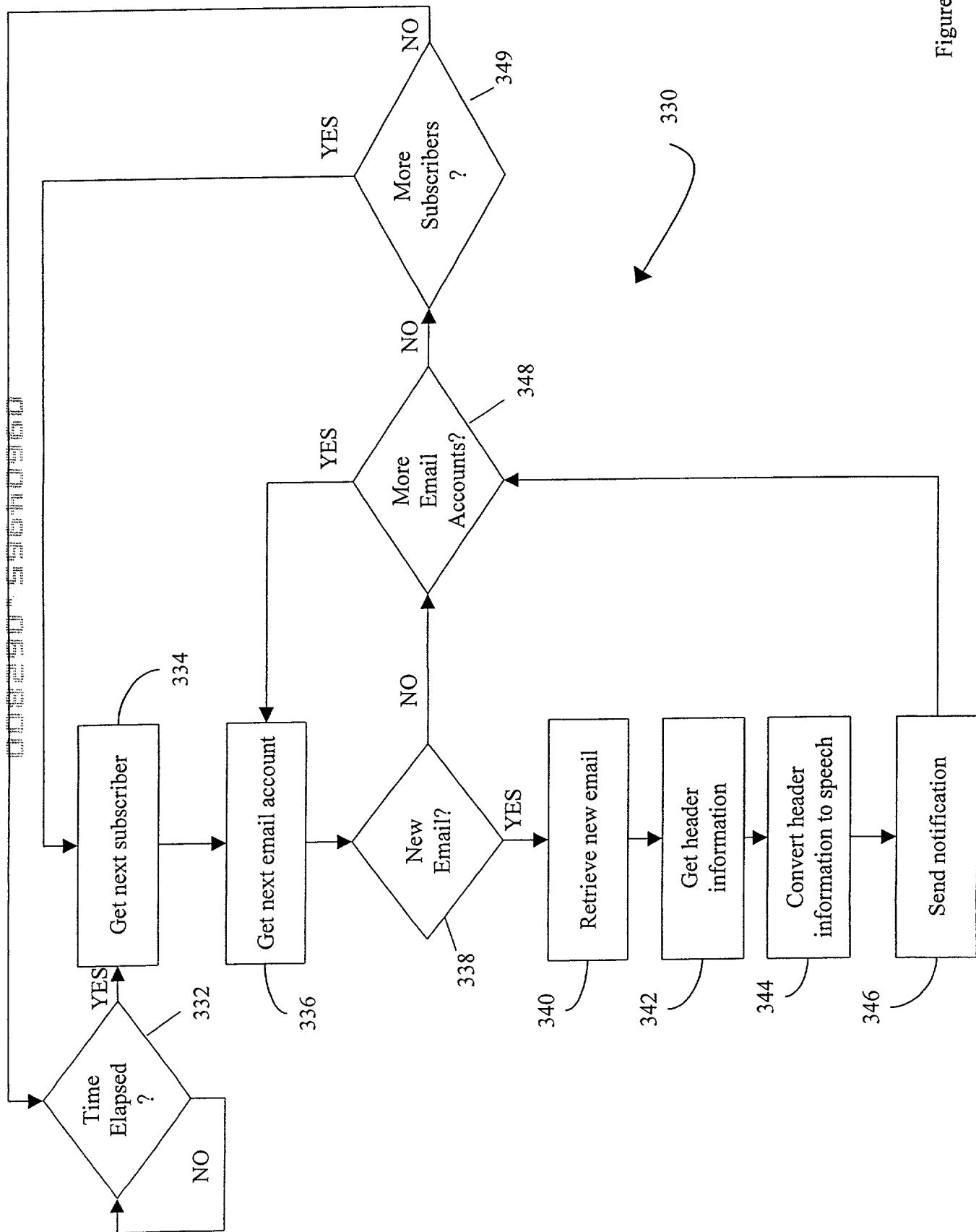


Figure 3B

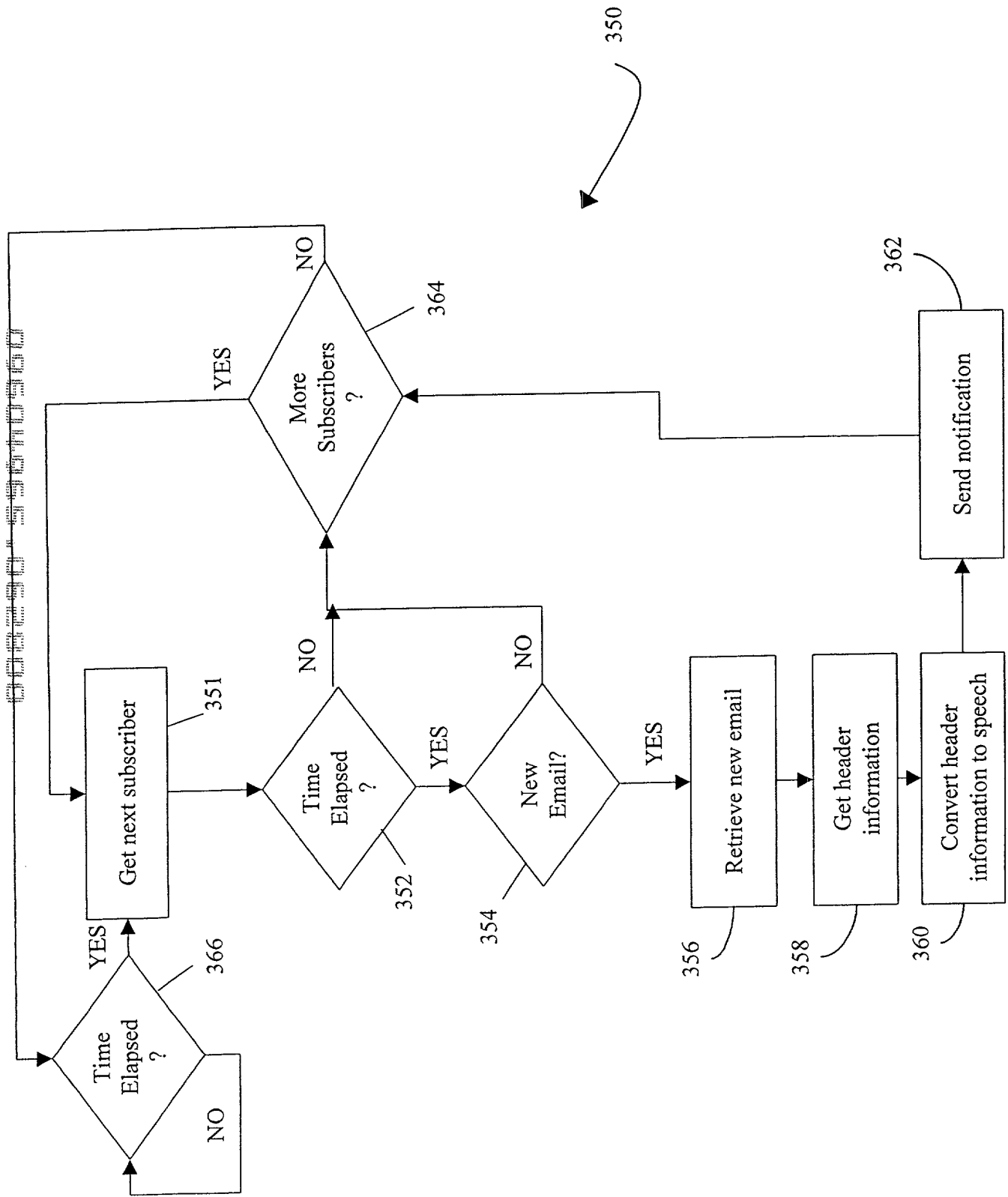


Figure 3C

Docket No.  
BS00-055

# Declaration and Power of Attorney For Patent Application

## English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled  
**SYSTEM AND METHOD FOR EMAIL NOTIFICATION**

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as United States Application No. or PCT International Application Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

\_\_\_\_\_  
(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

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(Status)  
(patented, pending, abandoned)

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(Application Serial No.)

\_\_\_\_\_  
(Filing Date)

\_\_\_\_\_  
(Status)  
(patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.



POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

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